

**Journal of
Air Transportation World Wide**

Volume 4, Number 1 – 1999

ISSN Number: 1093-8826

Journal of Air Transportation World Wide Vol. 4, Number 1 – 1999
Brent D. Bowen, Editor

©1999, Aviation Institute, University of Nebraska at Omaha

Published by:

Aviation Institute
University of Nebraska at Omaha
6001 Dodge Street
Omaha, Nebraska 68182-0508
USA

Phone: (402) 554-3424
Fax: (402) 554-3781

E-mail] journal@fa-cpacs.unomaha.edu

World Wide Web] <http://cid.unomaha.edu/~jatww>

Printed by: University of Nebraska-Lincoln Printing Services

Published as a not-for-profit service of the Aviation Institute. Funded in part
by a grant from the NASA Space Grant College and Fellowship Program.



The University of Nebraska does not discriminate in its academic,
employment or admission policies and abides by all federal, state
and regental regulations pertaining to same.

About the Journal of Air Transportation World Wide

The *Journal of Air Transportation World Wide's* (JATWW) mission is to provide the global community immediate key resource information in all areas of air transportation. Our goal is to be recognized as the preeminent scholarly journal in the aeronautical aspects of transportation. As an international and interdisciplinary journal, the JATWW will provide a forum for peer-reviewed articles in all areas of aviation and space transportation research, policy, theory, case study, practice, and issues. While maintaining a broad scope, a focal point of the journal will be in the area of aviation administration and policy.

Development:

The JATWW was conceptualized to fulfill an international void of scholarly publications in this area as identified by the primary organizers. It is envisioned that aviation leaders will utilize the JATWW as a key decision-making tool. Scholarly rigor and standard will be uncompromised with regular evaluation by the Editorial Board and Panel of Reviewers.

Scope:

The JATWW will accept manuscripts on all topics that relate to air transportation, both technical and non-technical. The Panel of Reviewers represent the interdisciplinary nature of air transportation to ensure review by recognized experts. Broad categories of appropriate topics include, but are not limited to:

- Aviation Administration, Management, Economics, Education, Policy, Engineering, Technology, and Science
- Intermodal Transportation
- Aerospace Education and Flight
- Airports and Air Traffic Control
- Air Transportation Systems: Domestic, International, Comparative
- Aviation/Aerospace Psychology, Human Factors, Safety, and Human Resources
- Avionics, Computing, and Simulation
- Space Transportation Safety, Communications, and the Future
- Other areas of air and space transportation research, policy, theory, case study, practice, and issues

Dissemination:

The JATWW is catalogued at key research libraries world wide, including the U.S. Library of Congress. It is also indexed in Aviation Tradescan, the National Research Council TRIS Index, and ERIC Resources in Education. In addition, the JATWW is available through inter-library loan at the University of Nebraska at Omaha Library and the Riga Aviation University in Latvia via accessing the

global OCLC inter-library loan network. A permanent archive is maintained at the University of Nebraska at Omaha. Annual subscriptions are available for \$35 for individuals and \$68 for institutions. Add \$20 for subscriptions outside the U.S.A. Payments may be made by check or purchase order to the UNO Aviation Institute.

Host Organization:

University of Nebraska at Omaha (UNO) — Nancy Belck, Chancellor;
Derek Hodgson, Vice Chancellor for Academic Affairs

Co-Sponsor Organizations:

American Society for Public Administration — Van Johnston, Chair,
Transportation Section
Air Transport Research Group — Tae Oum, Chair
NASA Kansas Space Grant Consortium — David Downing, Director
NASA Nebraska Space Grant Consortium — Brent Bowen, Director
NASA Space Grant College and Fellowship Program, Aero-Space
Technology Working Group — Julius Dasch, Program Manager
Riga Aviation University, Latvia — Boris Heimanis, Rector
World Aerospace Education Organization — Kamal Naguib, Chairman

Supporting Organizations:

Aviation Institute, UNO — Brent Bowen, Director
Center for Public Affairs Research, UNO — Russell Smith, Director
College of Public Affairs and Community Service, UNO — David
Hinton, Dean
Department of Public Administration, UNO — B. J. Reed, Chair
University Library, UNO — Robert Runyon, Dean

***JATWW* Personnel:**

Editor: Brent Bowen, Aviation Institute, UNO
Co-Editor: Igor Kabashkin, Riga Aviation University, Latvia
Assistant Editor: Fred Hansen, Aviation Institute, UNO
Manager, Technology-Based Educational Systems: Scott Vlasek, Aviation
Institute, UNO
Library Liaisons/Advisors: Carol Zoerb and Mel Bohn, University
Library, UNO
Publication Specialists: Joyce Carson, Layout and Melanie Hayes, Copy
Editor, Center for Public Affairs Research, UNO; Marian Gramlich,
Public Relations, UNO; Michaela Schaaf, Stylistic Reviewer, NASA
Nebraska Space Grant Consortium, UNO

Panel of Reviewers

Reviewers are appointed by the Editor to represent all elements of aviation and space transportation scholarship and practice. An appointment to the Panel of Reviewers recognizes professional and academic achievement. For membership consideration, submit a curriculum vita or statement of interest to Dr. Brent Bowen, Editor.

International Members

Fariba Alamdari
Cranfield University, England

Sergey Doroshko
Riga Aviation University, Latvia

Alexander Fedotov
Riga Aviation University, Latvia

Sveinn Gudmundsson
Universiteit Maastricht, The Netherlands

John M. C. King
Aviation & Tourism Management, Australia

Kyung-Sup Lee
Transportation & Logistics Institute, Seoul

Keith Mason
University of Plymouth, U.K.

Boris Mishnev
Riga Aviation University, Latvia

Y. S. Park
Korean Air, Seoul

Vadim Stroitlev
Riga Aviation University, Latvia

Victor Ujimoto
University of Guelph, Canada

Malcolm Yeo
Edith Cowan University, Australia

U.S.A. Members

Densel Acheson
University of Nebraska at Omaha

Herbert Armstrong
Dowling College

Kenneth Barnard
Kansas State University

Jon Bryan
Bridgewater State College

Gail Butler
Dowling College

Gerald Chubb
Ohio State University

James Crehan
University of Alaska—Anchorage

E. Terence Foster
University of Nebraska—Lincoln

Terry Gibbs
University of Nebraska at Kearney

Mavis Green
Embry-Riddle Aeronautical University

Scott Hall
Chicago Express Airlines

William Herrick
Middle Tennessee State University

Jeffrey Johnson
University of Nebraska at Omaha

Alexander Kalmykov
AMR SABRE, Texas

Jacqueline Luedtke
Utah State University

Rebecca Lutte
University of Nebraska at Omaha

William McCurry
Arizona State University

Pat McKinzie
Mankato State University

A. Keith Mew
California State University - Los Angeles

Terry Micherhuizen
Parker Berlea Aerospace, Michigan

Gary Northam
Saint Louis University

Manoj Patankar
San Jose State University

Stephen Quilty
Bowling Green State University

Thomas Reilly
Safety Harbor, Florida

Dawna Rhoades
Embry-Riddle Aeronautical University

Dutchie Riggsby
Columbus College

Robert Ripley
Auburn University

David Roy
Embry-Riddle Aeronautical University

Stephen Rutner
Georgia Southern University

Hope Thornburg
St. Cloud State University

Mary Ann Turney
Dowling College

Bijam Vasigh
Embry-Riddle Aeronautical University

Elizabeth Ward
NASA Langley Research Center

Thomas Weitzel
Trans World Airlines, Inc.

Jule Zumwalt
World Aerospace Education Organization

Table of Contents

Volume 4, Number 1 — 1999

**Special Edition: World Aerospace Education Organization Conference,
Perth, Western Australia – July 1998**

Guest Editor: Malcolm Yeo

- Analyses and Comparisons of Cognitive Learning Preferences
Among Airline Pilots, Corporate Pilots, and Aviation Students · · · · 1
Stephen M. Quilty
- Recruiting From Within: Action-Oriented Research Solutions to
Internal Student Recruitment in Collegiate Aviation Education · · · 14
Brent Bowen, Larry Carstenson, and Frederick Hansen
- Australian Space Societies: Their Role in Space Education · · · · · 26
Jos Heyman
- General Aviation: A Stepping Stone to a Career in Aviation · · · · · 36
Bruce J. Hulley
- Utilization of Presentation Packages for Information Dissemination · · 48
Dutchie Riggsby

Special Commentary

- The Environmental Impact of Tourism and Air Transport on the
Sustainable Development of Small Island Developing States · · · · 55
Ruwantissa I. R. Abeyratne

Book Review

- Asia Pacific Air Transport: Challenges and Policy Reforms · · · · · 67
Frederick Hansen

Index of Past Issues · · · · · 72

Guidelines for Manuscript Submission · · · · · 74

Order Form · · · · · 77

The Editors

Brent D. Bowen

Dr. Brent Bowen is Director and Professor, Aviation Institute, Department of Public Administration, University of Nebraska at Omaha. Bowen attained his doctorate in Higher Education and Aviation from Oklahoma State University and a Master of Business Administration degree from Oklahoma City University. His Federal Aviation Administration certifications include Airline Transport Pilot, Certified Flight Instructor (Gold Seal), Advanced Instrument Ground Instructor, Aviation Safety Counselor, and Aerospace Education Counselor. Dr. Bowen's research on the development of the national Airline Quality Rating is regularly featured in numerous national and international media, as well as refereed academic publications. Dr. Bowen has in excess of 200 publications, papers, and program appearances to his credit. His research interests focus on aviation applications of public productivity enhancement and marketing in the areas of service quality evaluation, forecasting, and student recruitment/retention in collegiate aviation programs. He is also well published in areas related to effective teaching and has pioneered new pedagogical techniques. Dr. Bowen has been recognized with awards of achievement and commendation from the American Marketing Association, American Institute of Aeronautics and Astronautics, Federal Aviation Administration, Embry-Riddle Aeronautical University, W. Frank Barton School of Business, Travel and Transportation Research Association, World Aerospace Education Association, and others.

Igor Kabashkin

Dr. Igor Kabashkin is Vice Rector of Riga Aviation University, Latvia and a Professor in the Aviation Maintenance Department. Kabashkin received his Doctor Degree in Aviation from Moscow Civil Engineering Institute, a High Doctor Degree in Aviation from Moscow Aviation Institute, a Doctor Habilitus Degree in Engineering from Riga Aviation University and Latvian Academy of Science. His research interests include analysis and modeling of complex technical systems, information technology applications, reliability of technical systems, radio and telecommunication systems, and information and quality control systems. Dr. Kabashkin has published over 217 scientific papers, 19 scientific and teaching books, and holds 67 patents and certificates of invention.

Frederick Hansen

Frederick Hansen is a doctoral student in Public Administration at the University of Nebraska at Omaha. He received his Master of Public Administration degree from the University of Nebraska at Omaha and a Bachelor of Science degree in Aerospace Engineering from Iowa State University. He retired from the United States Navy after twenty-four years as a Naval aviator. Fred's interests include aviation safety, airport security, intermodal transportation planning, and research methodologies.